



R3R1R2
2017

PRODUCT UPDATE

Changing the industry with

HARDWARE ACCELERATED DECODING

MAKE THE
WORLD SEE

 milestone



Table of Contents

We've put everything you need to know about this latest product update in one place. Get up to speed on all the new products and features. Welcome to your one-stop shop for the first Product Update of 2017. Happy reading!

Product Update Highlights

Page 3

Changing the industry with hardware accelerated decoding

Page 4

2017 R1 VMS Updates

Page 6

Download Center

Page 8

Product Update Highlights

Here's everything you need to know about the first product update of 2017.

	XProtect® Essential	XProtect® Express	XProtect® Professional	XProtect® Expert	XProtect® Corporate
Hardware accelerated video motion detection , a ground-breaking technology that shifts decoding from the CPU to the GPU, will enable mid- to large-scale installations to experience improved performance at a lower cost.	✓	✓	✓	✓	✓
Two-step verification to make sure installations have even stronger security and are only accessible for authorized personnel.	✓	✓	✓	✓	✓
Greater control in granting user permissions on our Advanced VMS products.	✓	✓	✓	✓	✓
Alarm lists in the XProtect® Web Client give users a list of all system alarms that have occurred since the user last logged on to the system.	✓	✓	✓	✓	✓
ONVIF Bridge now includes support for forward playback at different speeds and backward playback, enabling operators of third-party systems to be able to access and playback Milestone video via ONVIF Bridge.	✓	✓	✓	✓	✓
Smart Maps , introduced last year, now include support for off-line OpenStreetMaps, so administrators who work in systems not connected to the Internet can make use of Smart Maps functionality.	✓	✓	✓	✓	✓
The subscription pack option for XProtect® Essential is removed. It will now be a true free product with support for up to 8 camera licenses. Customers who need more than 8 cameras or who want Care Plus will need to purchase XProtect® Express	—	✓	✓	✓	✓
To help you transition XProtect Essential customers to XProtect Express, we've extended the campaign offer until March 31, 2017. Download the campaign flyer.					

	Husky™ M20	Husky™ M50	Husky™ M500A	Husky™ M550A
Now ships with rack rails included for the same competitive price.	✓	✓	✓	✓
Now supports RAID 5 in addition to RAID 10* .	✓	✓	✓	✓
XProtect® 2017 R1 now available for download for existing M500A/ M550A installations, including hardware accelerated motion detection feature.	✓	✓	✓	✓

* support for RAID for M500A/M550A is already supported in the product



Changing the industry with hardware accelerated decoding

When dealing with large-scale installations, being able to offer high performance at a reasonable cost is an essential part of winning large bids. To that end, we are introducing a ground-breaking new technology: hardware accelerated video motion detection.

Built-in video motion detection (VMD) is already a means for organizations to lower their total cost of ownership by making the best use of available storage and reducing wear and tear on the recording disk. With hardware accelerated VMD, we shift video decoding from the software CPU to the hardware GPU*.

What does this mean for an installation?

Transferring the video decoding from the CPU to the GPU means a significant reduction in the load on the CPU. This is fantastic news, because by reducing the load on the CPU, you can run more cameras per server than ever before. This means you can use fewer servers per installation or lower spec servers, resulting in a lower total system cost. For existing installations, it also means that the same number of cameras will have a lower CPU load, freeing up resources on the server for other components and processes. For example, it will be possible to fully run video motion detection with the latest H.265 video compression.

For system integrators deploying mid- to large-

scale installations with hundreds of cameras, this technology will be a game-changer and put you ahead of the competition. The Husky M500A and M550A can also take advantage of hardware accelerated VMD to get a reduced CPU load and the ability to use more server-side VMD cameras.

Documented results

Tests run by our Product Group indicate that hardware accelerated VMD results in a substantial performance improvement. Based on one of the tests we performed in-house (see the graph, right), customers can have twice as many cameras on the same server with the same CPU load, or experience up to 90% reduction in CPU load with the same number of cameras on the server**.

*An Intel CPU with support for Quick Sync Video is required; the supporting CPUs can be found here: <http://ark.intel.com/search/advanced?QuickSyncVideo=true&MarketSegment=DT>

**Tested with these system specifications: Intel i7-6700K, Windows 10, Intel HD Graphics 530, 16GB, RAM, video feed: H264-1080p, VMD on Keyframes and 12% pixels, 30 FPF, 2.5 Mbit/s

90%

reduction in CPU load with the same number of cameras on the server**.



Key Facts:

Video decoding

Video decoding is moved from the CPU to the GPU

Large scale

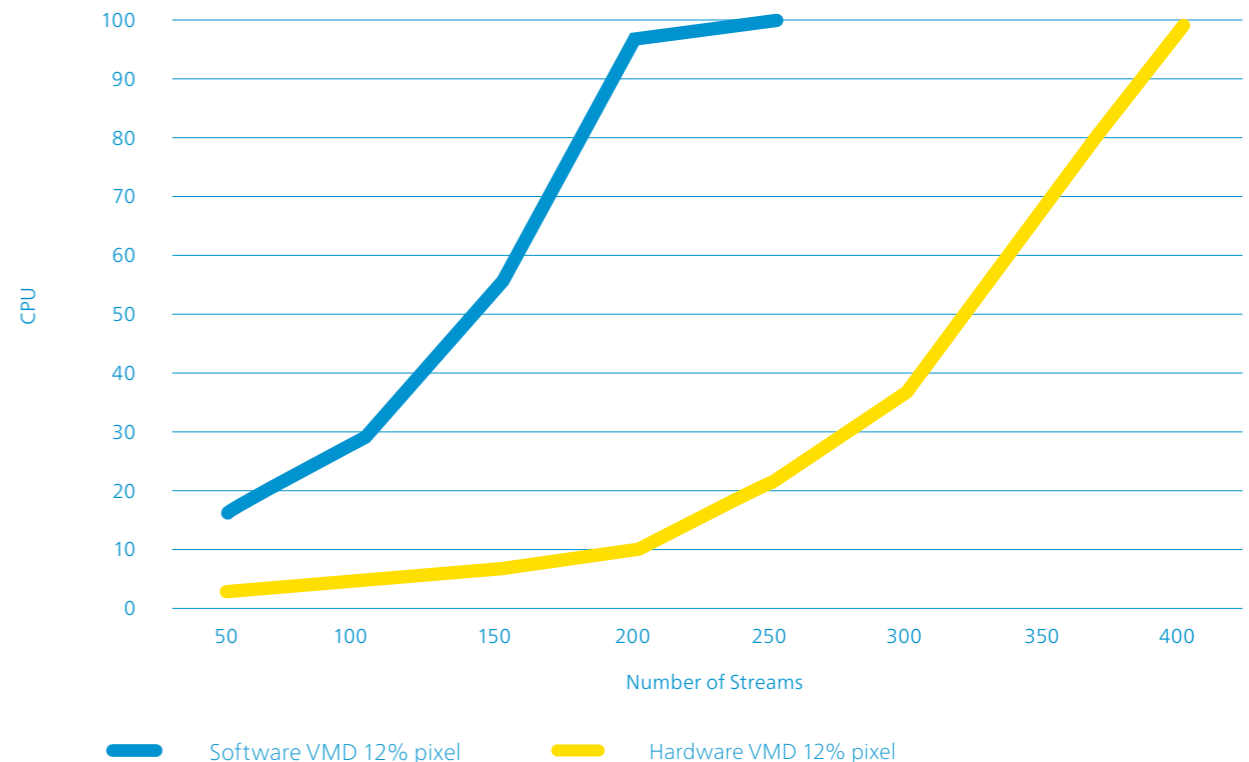
Ideal for large-scale installations

Lower system cost

Resulting in a lower system cost

Performance Test Result

H264 - 1080p / VMD on Keyframes and 12% of pixels



Offer superior performance at a low cost

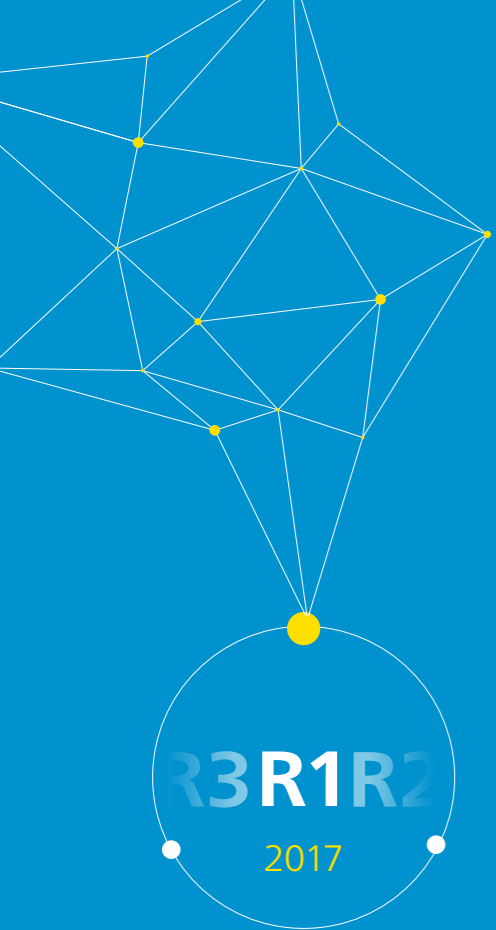
Hardware accelerated VMD is just the latest in a line of enhancements to our XProtect Advanced VMS products that offer mid- to large-scale installations outstanding performance, while lowering TCO. Consider the following:

- Our recording server, built as a native 64-bit Microsoft Windows service, offers a documented recording capacity of at least 3.1 Gbit/s.

- Our Smart Client offers hardware accelerated decoding, providing a smoother presentation of video feeds and enabling users to display 3.5 times more cameras per workstation than competing solutions.
- Our ability to record pre-buffer in the RAM means less wear and tear on the recording disks, meaning more cameras can be added to the recording server and customers can use a lower specification disk.

- SVQR™ enables customers to record high-quality video using edge storage and low-quality video centrally, thus reducing the overall network and storage costs.

All of these features add up to a system that offers better recording performance, improved flexibility when selecting storage components and a lower total cost of ownership across the installation's lifetime.



Additional 2017 R1 VMS updates

The first product update of 2017 includes a number of additional enhancements to the XProtect® Advanced VMS. We continue our focus on cybersecurity, introduce a simpler installation process for single-server sites and expand the scope of existing features.

Beefing up security

We all know that cyberattacks are on everybody's mind these days and a concern to many high-risk installations. That's why the 2017 R1 product update includes a number of security enhancements for improved cybersecurity. To make sure installations running XProtect® Corporate have even stronger security and are only accessible for authorized personnel, we've enabled two-factor authentication on the XProtect® Web Client and Milestone Mobile.

We've also introduced the ability to better control who gets access to the system and video data by enabling system administrators to control user access permission on the viewing client level. This feature

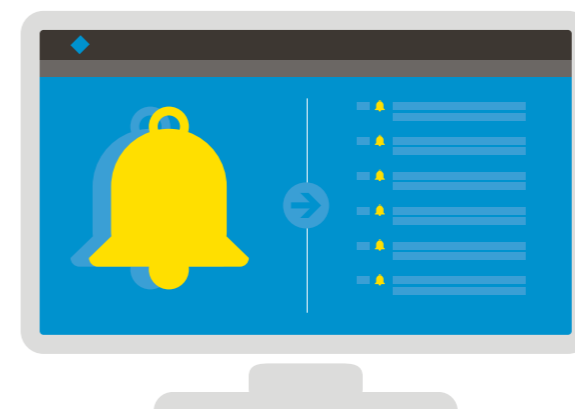
is well suited for installations with multiple users, and gives administrators better control over the users that have access to each viewing client. This is supported for both XProtect® Expert and Corporate.

These latest security features complement the wide range of existing options, such as https-encrypted communication between servers and cameras and servers and clients, support for Kerberos, digital signature and password protection on video export, which enable you to provide a secure, protected surveillance solution.



Making life easier for single-server installations

We've simplified the installation process for smaller, single-server installations using XProtect® Corporate or Expert. When all system components are installed on the same machine, the installer will automatically perform a wide range of actions, including scanning for and adding all cameras and creating a number of views in the Smart Client to match the identified cameras. This wizard-like installer brings the simple, predictable set-up available in our business-ready VMS products, to the advanced VMS portfolio as well, offering integrators an easier, more reliable installation process.

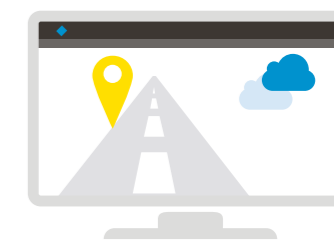


Viewing alarms in the Web Client

When we talk about our viewing clients, we often speak about how they provide customers with the freedom to choose how they want to view their video. Freedom of choice means providing an equal experience regardless of the viewing client used. With this product update, we're introducing the alarm list for the XProtect® Web Client. Now Web Client users can

get the same overview of generated system alarms that was previously only available on the Smart Client. They can now access their system on-the-go, from any internet-enabled PC, secure in the knowledge that they'll always know when something needs their attention. It's mobility, without compromised security.

Bringing the benefits of Smart Maps to offline systems



With the introduction of Smart Maps last year, installations connected to the Internet can use Bing, Google and OpenStreetMap to incorporate live maps into their systems. The 2017 R1 product update gives users access to the full database of offline maps from OpenStreetMap. This new feature will enable customers with off-line installations to take advantage of Smart Maps as well.

Comparison Charts

XProtect®



Milestone Husky™



What's New Briefs

XProtect®



Milestone Husky™



Product Sheets

XProtect® Essential



XProtect® Expert



XProtect® Corporate



Milestone Husky™ M20



Milestone Husky™ M50



Milestone Husky™ M550A/M550A



Product Presentations

XProtect® Essential



Husky Series



What's New Presentation



Highlights of the Release video



Price List

Milestone Price List



eLearning

R1 eLearning

